FEDERAL-STATE COOPERATIVE SNOW SURVEYS and IRRIGATION WATER FORECASTS

for

MISSOURI-ARKANSAS DRAINAGE BASIN

February 1, 1949

by

Division of Irrigation, Soil Conservation Service
United States Department of Agriculture
and
Colorado Agricultural Experiment Station

The snowpack data in this report were obtained in the cooperative snow survey work in cooperation with the U.S. Forest Service, National Park Service, State Engineers of Colorado, Wyoming and New Mexico and other Federal, State, and private agencies.

WATER SUPPLY OUTLOOK

MISSOURI-ARKANSAS DRAINAGE BASINS

February 1, 1949

Snow accumulation to February 1 was above normal throughout the mountain areas of the Missouri and Arkansas Rivers and their tributaries. The snow cover is relatively heavier in southern Wyoming and northern Colorado with somewhat less on the Bighorn, Upper Missouri and in northern Montana. Snow covers the valleys but in some districts drifting has been excessive. Reservoir storage in most areas is slightly under a year ago. Soil moisture is expected to be fairly good by spring even though many areas were dry before recent snows.

MISSOURI RIVER AND TRIBUTARIES IN MONTANA

From a limited number of snow surveys on the Upper Missouri and Yellowstone Rivers, the snow-water contents are about 40 percent above normal. Snow cover on the headwaters of the Madison and Gallatin Rivers is 50 to 60 percent above February 1, 1948. On the Jefferson River the snow cover is similar to a year ago but on the Missouri River tributaries between Helena and Great Falls it is 80 percent of last year. Snow conditions on the Marias River are much improved over a year ago. Storage in most Montana reservoirs at this time is very close to a year ago. In Fort Peck Reservoir the amount of water stored is now 12,700,000 acre-feet as compared to 13,130,000 on February 1, 1948. Precipitation during January has been near average. At the present time ice-flows in the Missouri and Yellowstone Rivers are presenting a definite flood hazard in case of a sudden thaw.

BIGHORN RIVER BASIN

As shown by February 1 snow surveys the snow accumulation is not as heavy as on adjacent watersheds. An exception to this trend is the headwaters of the Popo Agie where the snow-water content is 162 percent of normal. The snow cover is relatively higher at 9500 to 10,000 feet with near average conditions at lower elevations. Range and irrigated areas are snow-covered throughout the valley above and below the Wind River Canyon. Storage in Buffalo Bill Reservoir is now 230,000 as compared to 344,000 on February 1, 1948. In Bull Lake and Pilot Butte Reservoirs there is now stored 63,000 acre-feet; a year ago it was 111,000. Soil moisture conditions are reported as good throughout the Basin.

CHEYENNE RIVER

Snow cover in the Black Hills is about twice normal and is considered adequate to fill Belle Fourche Reservoir, which now has 116,000 acre-feet in storage.

Miscellaneous Series Paper No. 428, Colorado Agricultural Experiment Station

NORTH PLATTE RIVER

On the headwaters of the Laramie, North Platte and Sweetwater Rivers the snow accumulation to February 1 was very high. The snow-water contents are now close to the April 1 average for the past record and 50 to 80 percent above normal. Summer runoff in these streams should be at least average and if the present rate of snow accumulation continues the runoff will be excessive. Snow in the North Park area is estimated as the heaviest for the past 20 years. Storage in the four major reservoirs on the North Platte is now 1,119,000 acre-feet as compared to 1,339,000 a year ago. The normal carryover for these reservoirs for the past ten years is about 400,000 acre-feet. In the Wheatland Reservoir system, there is now 30,000 acre-feet in storage, about one-half of that stored on February 1, 1948. In Kingsley and Sutherlund Reservoirs in Nebraska, the storage now totals 1,587,000 acre-feet, practically the same as last year. Soil moisture throughout the valley area from southern Wyoming to eastern Nebraska is reported as good. Streamflow is below normal due to extremely low temperatures in January.

SOUTH PLATTE RIVER

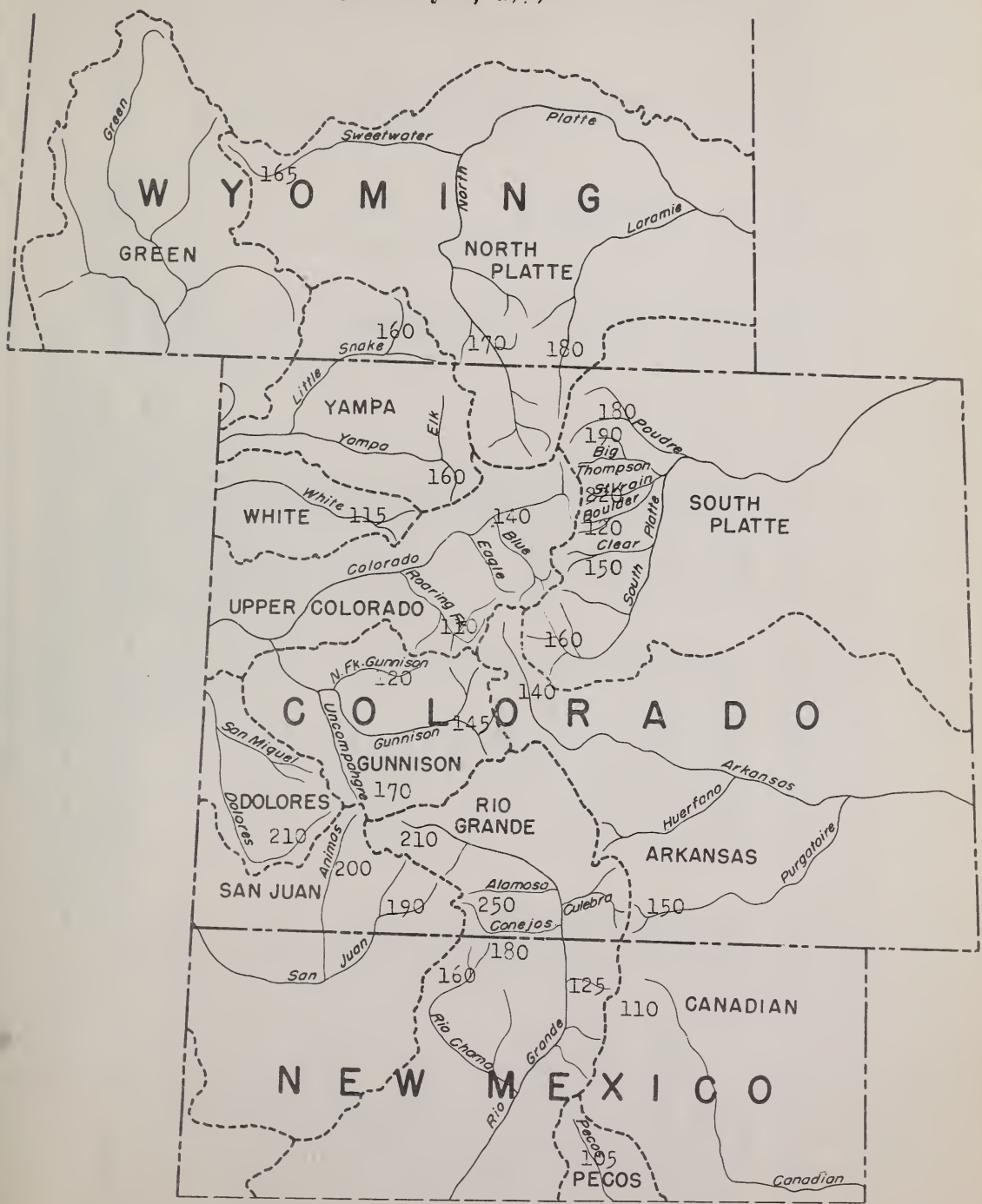
The water supply outlook for the South Platte and its tributaries is very favorable at this time. However, about one-half of the snow cover accumulates after February 1 on the average and any estimate of runoff should be considered as preliminary and subject to the amount of snow to come at a later date. With the exception of Boulder Creek the snow-water contents were much above normal. Boulder Creek snow courses show 9 percent above normal and 80 percent of last year. Other South Platte tributaries range from 149 percent of normal on Clear Creek to 229 percent of normal on the St. Vrain River. Reservoir storage for irrigation is generally slightly under last year and about 1/4 less in the Fort Morgan and Sterling districts. Recent precipitation has ranged from well over normal above Denver to normal throughout the rest of the valley. The soil is dry and in many areas the snow has drifted to such an extent as to be of little value to soil moisture. Streamflow is about average.

ARKANSAS RIVER

On the headwaters of the Arkansas River snow cover is less than in other areas in Colorado. However, February 1 snow surveys show an average of 37 percent above normal and 20 percent over last year. Precipitation in the valley has been generally below average during recent months. Soil moisture is dry except at higher elevations. Reservoir storage is about one-half of a year ago, except for John Martin and Great Plains. Current storage in these reservoirs is 126,000 and 100,000, respectively.

WATER CONTENT OF SNOW ON THE WATERSHEDS OF
PLATTE, ARKANSAS, UPPER COLORADO AND RIO GRANDE BASINS
BASED ON SNOW SURVEYS MADE APPROXIMATELY FIRST DAY OF MONTH

In Percent of Normal
February 1, 1949



SUMMARY OF FEBRUARY 1 SNOW SURVEYS AND COMPARISON OF DATA WITH THAT OF PREVIOUS YEARS BY WATERSHEDS

MISSOURI-ARKANSAS DRAINAGE BASINS

WATERSHEDS	Snow Depth			Water Content			Number Courses in Average	Snow Density			1949 Water Content in percent of	
	Thirteen Year Avg.*	1948	1949	Thirteen year Avg.*	1948	1949		Thirteen year Avg.*	1948	1949	Thirteen year Avg.*	1948
MISSOURI RIVER	In.	In.	In.	In.	In.	In.		Percent	Percent	Percent		
Jefferson River	15.4	20.3	25.0	2.7	3.7	3.9	1	18	18	16	144	105
Madison River	34.1	31.3	42.6	8.1	7.8	11.7	3	24	25	28	145	150
Gallatin River	38.6	34.4	48.3	9.7	8.8	14.2	1	25	25	29	146	161
Yellowstone River			35.6			8.4	3			24		
Missouri River**	23.4	37.5	35.4	5.6	9.5	7.5	4	24	25	21	134	79
Marias River	35.5	30.4	45.3	11.2	8.2	12.6	1	32	27	28	112	154
Cheyenne River	18.2	23.0	31.0	3.1	4.3	6.5	3	17	19	21	210	151
Shoshone River	42.2	--	46.8	11.7	--	14.8	2	28		32	126	--
Wind River	28.6	--	32.7	6.5		8.2	6	23		25	126	
Popo Agie	26.4		38.4	5.8		9.4	3	22		24	162	
Sweetwater	33.0		46.6	7.5		11.6	2	23		25	155	
North Platte River	44.0	43.4	59.9	11.2	12.2	18.6	8	25	28	31	167	152
Laramie River	24.8	30.5	38.0	6.0	7.3	10.9	5	24	24	29	182	150
South Platte River***	20.1	28.0	27.4	3.5	4.8	5.7	3	17	17	21	163	119
Crow Creek	13.8	21.6	25.9	2.7	4.6	6.9	1	20	21	27	256	150
Poudre River	21.2	31.3	32.8	5.6	7.6	10.0	3	26	24	30	179	132
Big Thompson River	27.3	33.5	40.6	5.8	7.3	11.0	1	21	22	27	190	151
St. Vrain River	28.0	--	43.2	6.3		14.4	1	22		33	229	--
Boulder Creek	35.8	45.0	45.7	10.3	14.0	11.2	1	29	31	25	109	80
Clear Creek	34.6	41.5	40.9	7.9	8.8	11.8	2	23	21	29	149	134
ARKANSAS RIVER	27.2	32.1	32.8	5.7	6.5	7.8	9	21	20	24	137	120

*Some for shorter periods **Between Helena and Great Falls ***Above Denver, Colo.

SNOW SURVEYS AND IRRIGATION WATER FORECASTS
FOR MISSOURI AND ARKANSAS RIVERS
February 1, 1949

PRECIPITATION DATA

WATERSHED	STATE	Precipitation October 1 to January 31	Departure from Normal	Precipitation January	Departure from Normal
		Inches	Inches	Inches	Inches
Missouri	East. Mont.				
Missouri	Cent. Mont.				
Missouri	North Wyo.	3.83	+0.56	1.07	+0.29
North Platte	Wyoming	5.19	+1.50	1.47	+0.52
South Platte	Colorado	2.88	-0.04	0.88	+0.50
Arkansas	Colorado	3.64	-0.37	1.32	+0.44

Accumulated precipitation since October 1 on the watershed of the Missouri River in Colorado and Wyoming was above normal except for the South Platte. Precipitation on the Arkansas River was also below normal. January precipitation was above normal in all areas.

MISSOURI-ARKANSAS RIVERS SNOW SURVEYS,
February 1, 1949

Drainage Basin and Snow Course	Location: No. and State	Sec.	Twp. or Lat.	Range or Long.	Elev.	Date of Survey	Snow Depth (Inches)	Snow Course Measurements: Water Content (Inches) 1949	1948	1947	Past Record: Years of Record	Av. Water Content (Inches)
					MISSOURI RIVER			In.	In.	In.		
JEFFERSON RIVER												
Camp Creek*	6 Ida.	21	13N	36E	6800				--	9.3	11	
Picnic Grounds	Mont	22	5N	6W	6500	1/21	25.0	3.9	3.7	3.1	4	2.7
Gibbons Pass	10 "	4	2S	19W	7100				--	23.5	9	
Pipestone Pass	30 "	11	1N	7W	7200	1/31	28.0	5.2	--	5.0	9	--
			Average for drainage				25.0	3.9	3.7	3.1		2.7
MADISON RIVER												
Aster Creek*	2 Wyo.		44.2N	110.6W	7700	1/14	60.0	19.2	--	23.4	11	--
Lewis L. Divide*	8 "		44.2N	110.7W	7900	1/14	73.0	25.3	--	32.9	11	--
Big Springs*	3 Ida	34	14N	44E	6500	1/28	53.0	15.1	--	15.0	11	
W. Yellowstone	16 Mont	34	13S	5E	6700	1/31	37.4	9.7	5.1	9.4	11	6.8
21-Mile*	"	1	11S	5E	7150	2/1	48.3	14.2	8.8	14.6	11	9.7
Hebgen Dam	"	22	11S	4E	6550	1/31	42.1	11.1	9.5	9.2	11	7.8
Valley View	Ida.	7	15N	44E	6500	1/29	42.0	10.7	--	11.2	3	--
			Average for drainage				42.6	11.7	7.8	11.1		8.1
GALLATIN RIVER												
Mystic Lake #1	Mont.	31	3S	7E	6600				--	5.4	11	--
Mystic Lake #2	"	31	3S	7E	6600	2/1	31.4	6.6	--	4.0	11	--
21-Mile	"	1	11S	5E	7120	2/1	48.3	14.2	8.8	14.6	11	9.7
			Average for drainage				48.3	14.2	8.8	14.6		9.7
YELLOWSTONE RIVER												
Lake Camp	1 Mont.		44.6N	110.4W	7850	2/1	35.3	8.4				
Canyon	2 "		44.7N	110.5W	7750	2/1	42.0	10.2				
Cooke City	10 "	25	9S	14E	7400	2/1	29.4	6.7				
MISSOURI RIVER**												
Chessmen Res.	6 Mont.	2	8N	5W	6200	2/2	22.4	4.4	6.6	5.0	11	3.1
Lower Rimini	41 "	13	8N	6W	6250	1/31	33.4	6.3	7.2	7.3	11	4.5
Middle Rimini	42 "	13	8N	6W	6800	2/2	40.8	8.7	10.5	10.9	11	6.6
Upper Rimini	43 "	19	8N	5W	8000	2/1	45.0	10.6	13.8	13.5	11	8.4
			Average for Drainage				35.4	7.5	9.5	9.2		5.6
MARIAS RIVER												
Marias Pass	20 Mont		48.3N	113.4W	5250	2/1	45.3	12.6	8.2	20.2	11	1.2

*on adjacent drainage **Between Helena and Great Falls

MISSOURI ARKANSAS RIVERS SNOW SURVEYS

February 1, 1949

Drainage Basin and Snow Course	Location: No. and State	Sec.	Twp.	Range	Elev.	Date of Survey	Snow Depth (Inches)	Snow Cover Measurements: Water Content (Inches) 1949	1948	1947	Past Record: Yrs. of Rec.	Av. Water Content (Inches)
						MISSOURI RIVER						
SHOSHONE RIVER												
Sylvan Pass	32 Wyo.	12	52N	110W	7100	1/30	39.4	11.0		9.4	5	10.3
Brooks Lake #3*	50 "	23	44N	110W	9200	1/26	54.1	18.7		18.7	8	13.1
East Entrance	65 "	17	52N	109W	7000	1/31	36.7	10.7		--	-	--
			Average for drainage				46.8	14.8		14.0		11.7
UPPER WIND RIVER												
Sheridan Creek R.S.	49 "	3	42N	109W	7500	1/26	27.2	6.3		5.4	7	4.6
Brooks Lake #3	50 "	23	44N	110W	9200	1/26	54.1	18.7		18.7	8	13.1
St. Lawrence R.S.	51 "	26	1N	4W	9000	2/4	29.3	5.7		5.7	5	5.2
Mosquito Park RS	52 "	23	2S	3W	9500	2/3	30.8	6.8		4.0	5	5.6
DuNoir	53 "	27	42N	108W	8750	1/27	29.0	6.2		7.3	7	6.0
T-Cross Ranch	54 "	1	43N	107W	8000	1/30	26.0	5.5		5.0	7	4.6
Hobbs Park	55 "	22	2S	3W	10000	2/3	45.6	12.8				
Trout Creek	56 "				8400	2/3	25.3	5.8				
Dinwoodie	60 "	9	38N	105W	10000	1/28	36.8	9.1				
Dry Creek	61 "	34	4N	105W	9500	1/28	25.9	5.1				
Burroughs Creek	62 "	15	43N	107W	8800	2/2	39.1	9.8				
Little Warm	63 "	24	41N	108W	9500							
Geyser Creek	64 "	12	41N	108W	8500	1/27	28.8	6.3				
			Average for drainage				32.7	8.2		7.7		6.5
POPO AGIE RIVER												
Sawmill Glade	45 "	3	31N	101W	8500	2/1	27.0	5.9	--	3.5	7	3.9
Blue Ridge	46 "	23	31N	101W	9500	2/1	41.4	10.0	--	8.2	7	6.2
South Pass	47 "	13	30N	101W	9000	1/31	46.7	12.2		9.8	7	7.4
			Average for drainage				38.4	9.4		7.2		5.8
LOWER BIG HORN												
Owl Creek	58 "	36	43N	101W	8700	1/24	18.4	4.2				
Beavers Mill	59 "	6	43N	102W	8900	1/25	24.5	5.5				
Timber Creek	66 "	25	47N	103W	9000	1/29	21.0	5.0				
			Average for drainage				21.3	4.9				

MISSOURI-ARKANSAS RIVERS SNOW SURVEYS
February 1, 1949

Drainage Basin and Snow Course	No. and State	Location: Sec.	Twp.	Range	Elec.	Date of survey	Snow Depth (Inches)	Snow Cover Measurements: Water Content (Inches) 1949	1948	1947	Past Record: Yrs. of Rec.	Ave. Water Content (Inches)
MISSOURI RIVER												
CHEYENNE RIVER												
Upper Spearfish	1 S.Dak.	21	3N	1E	6500	2/1	38.8	8.7	5.7	2.7	5	3.9
Upper Castle	2 "	24	2N	1E	6800	2/1	31.5	6.4	4.7	3.1	4	3.3
Deerfield	3 "	23	1N	2E	6000	1/28	22.6	4.5	2.6	2.4	5	3.3
		Average for Drainage					31.0	6.5	4.3	2.7		3.1
SWEETWATER RIVER												
Grannier Meadows	29 Wyo.	19	30N	100W	9000	1/31	46.5	11.1	--	10.3	7	7.6
South Pass*	47 "	13	30N	101W	9000	1/31	46.7	12.2	--	9.8	7	7.4
		Average for drainage					46.6	11.6		10.0		7.5
NO. PLATTE RIVER												
Cameron Pass	1 Colo	2	6N	76W	10300	1/27	50.7	16.5	13.5	14.2	10	11.3
Park View	7 "	24	5N	78W	9200	1/27	37.4	8.6	--	6.8	11	5.1
Columbine Lodge	8 "	21	5N	82W	9300	2/1	61.0	19.6	15.8	10.9	13	12.9
Willow Cr.Pass*	62 "	1	4N	78W	9500	1/27	44.7	12.4	--	8.0	9	6.8
Spicer	112 "	27	6N	81W	8400	2/3	40.8	12.7				
Bottle Creek	7 Wyo.	24	14N	85W	8200	1/27	47.1	13.8	8.7	7.3	11	6.9
Webber Spring	8 "	27	14N	85W	9000	1/27	60.4	18.7	10.2	10.8	11	9.0
Old Battle	9 "	29	14N	85W	9800	1/26	91.3	28.1	17.7	21.2	11	17.0
N.French Creek	37 "	27	16N	80W	10200	1/31	71.0	24.1	15.5	13.4	11	15.4
N.Barrett Creek	38 "	30	16N	80W	9400	1/31	57.0	16.7	10.2	9.8	11	10.6
Ryan Park	39 "	34	16N	81W	8400	2/1	41.1	11.5	5.9	5.1	11	6.1
Spring Creek	67 "	32	15N	85W	9000							
Albany	68 "	18	14N	78W	9400	2/3	42.6	12.1				
La Bonte	69 "	11	27N	74W	8450							
		Average for drainage					59.9	18.6	12.2	11.6		11.2

*On adjacent drainage

MISSOURI-ARKANSAS RIVERS SNOW SURVEYS

February 1, 1949

Drainage Basin and Snow Course	Location: No. and State	Sec	Twp	Range	Elev.	Snow Cover Measurement: Date of Survey	Snow Depth (Inches)	Water Content (Inches) 1949	1948	1947	Past Record: Yrs. of Rec.	Av. Water Content (Inches)
						MISSOURI RIVER						
LARAMIE RIVER												
W.Port.G-P Tun.	4 Colo	7	8N	75W	8600			--	--	5.1	8	4.9
Deadman Hill*	50 "	26	10N	75W	10200			--	--	9.7	9	7.3
Roach	88 "	5	10N	77W	9800	1/29	57.2	15.4	--	13.5	8	9.4
McIntyre	111 "	35	10N	76W	9100	1/28	38.8	10.5				
Brooklyn Lake	3 Wyo.	11	16N	79W	10200	2/1	53.7	17.8	11.9	12.2	11	11.8
Fox Park	11 "	21	13N	78W	9200	2/1	35.4	8.7	6.6	3.9	12	5.0
Pole Mtn. #2*	34 "	35	15N	72W	8700	1/30	25.9	6.9	4.6	2.6	12	2.7
Libby Lodge	35 "	29	16N	78W	8700	2/1	36.5	9.9	6.3	5.2	11	4.9
Hairpin Turn	36 "	24	16N	79W	9500	2/1	38.3	11.0	7.2	6.2	11	5.8
Albany	68 "	18	14N	78W	9400	2/3	42.6	12.1	--	--	--	--
				Average for drainage			38.0	10.9	7.3	6.0		6.0
CROW CREEK												
Pole Mtn. #2*	34 "	35	15N	72 W	8700	1/30	25.9	6.9	4.6	2.6	12	2.7
POUDRE RIVER												
Cameron Pass	1 Colo	2	6N	76W	10300	1/27	50.7	16.5	13.5	14.2	10	11.3
Chambers Lake	2 "	6	7N	75W	9000	1/25	31.3	9.1	6.4	4.0	10	4.2
Big South	3 "	33	8N	75W	8600	1/27	16.4	4.5	2.9	1.2	10	1.3
Deadman Hill	50 "	26	10N	75W	10200		--	--	--	9.7	9	7.3
Lake Irene*	65 "	8	5N	75W	10600	1/30	57.1	19.3	--	13.6	10	11.9
Hour Glass Lake	68 "	18	7N	73W	9500		--	--	--	4.6	9	3.9
Red Feather	128 "	26	10N	74W	9000	2/3	34.1	9.0				
				Average for drainage			32.8	10.0	7.6	6.5		5.6
BIT THOMPSON RIVER												
Lake Irene*	65 "	8	5N	75W	10600	1/30	57.1	19.3		13.6	10	11.9
Hidden Valley	95 "	23	5N	75W	9550	2/1	40.6	11.0	7.3	7.8	9	5.8
Deer Ridge	115 "	19	5N	73W	9050	2/1	26.7	7.5	--	--		--
				Average for drainage			40.6	11.0	7.3	7.8		5.8
ST. VRAIN RIVER												
Wild Basin	41 Colo.	24	3N	74W	10000	2/1	43.2	14.4	--	8.4	11	6.3
Copeland Lake	116 "	21	3N	73W	8600	1/31	20.9	6.5	--			
Raymonds	129 "	5	2N	72W	8750	1/31	15.7	2.8	--			
				Average for drainage			43.2	14.4		8.4		6.3

*On adjacent drainage

MISSOURI-ARKANSAS RIVERS SNOW SURVEYS

February 1, 1949

Drainage Basin and Snow Course	No. and State	Location: Sec.	Twp.	Range	Elev.	Date of Survey	Snow Depth (Inches)	Water Content (Inches): 1949	1948	1947	Past Record: Years of Record	Ave. Water Content (Inches)
						MISSOURI RIVER						
BOULDER CREEK												
E. Port. Moffat T.	5 Colo	2	2S	74W	9400	2/1	10.9	3.1	--	2.8	10	2.2
University Camp	60 "	28	1N	73W	10300	2/5	45.7	11.2	14.0	10.7	10	10.3
		Average for Drainage					45.7	11.2	14.0	10.7		10.3
CLEAR CREEK												
Loveland Pass	61 "	27	4S	76W	10100	1/28	37.7	10.7	7.3	7.6	9	6.5
Grizzly Peak*	97 "	2	5S	76W	11250	1/28	44.1	13.0	10.3	9.9	7	9.3
Empire	117 "	21	3S	75W	9650	2/1	16.7	3.5				
		Average for Drainage					40.9	11.8	8.8	8.8		7.9
SOUTH PLATTE RIVER												
Hoosier Pass	14 Colo	13	8S	78W	11400	1/31	35.3	8.3	6.6	5.4	10	5.7
Fairplay	15 "	33	9S	77W	10000	2/1	15.1	2.0	2.5	1.6	10	0.8
Jefferson Cr.	83 "	14	7S	76W	10100	1/31	31.7	6.8	5.4	4.7	9	4.0
Geneva Park	118 "	18	6S	74W	9750	1/31	18.5	4.9				
Antero	120 "	1	13S	77W	9200	2/1	14.7	2.7				
Deer Creek	130 "	28	6S	78W	8950	1/31	12.7	2.4				
		Average for Drainage					27.4	5.7	4.8	3.9		3.5
ARKANSAS RIVER												
Tennessee Pass	19 Colo	21	8S	80W	10200	1/30	32.6	6.8	4.6	3.2	13	4.6
Twin Lakes T.	21 "	22	11S	82W	10500	2/1	28.8	6.8	6.1	7.4	11	6.0
Marshall Creek*	42 "	24	48N	6E	10800	1/30	39.1	10.1	5.8	5.2	13	6.6
Poncha Creek	43 "	19	48N	7E	10500	1/30	33.2	9.1	6.2	4.3	13	6.2
Whiskey Creek	72 "		37.2N	105.2W	10300	1/31	21.7	5.7	5.5	3.3	9	3.6
La Veta Pass*	74 "	22	28S	70W	9300	2/1	30.8	6.8	7.0	7.0	9	4.9
4-Mile Park	78 "	23	11S	81W	9700	1/31	17.4	2.5	3.5	2.5	9	2.4
Fremont Pass	79 "	2	8S	79W	11400	1/27	43.3	10.5	9.4	9.0	13	8.2
Monarch Pass	92 "	16	49N	6E	10500	1/28	48.6	11.8	10.1	4.9	8	9.1
St. Elmo	119 "	31	15S	80W	10600	2/1	36.2	8.0				
Timberline	121 "	8	9S	81W	11100	2/3	53.6	14.5				
		Average for Drainage					32.8	7.8	6.5	5.4		5.7

*On adjacent drainage

The following organizations cooperate in the snow surveys and irrigation water supply forecasts for the Colorado, Missouri-Arkansas and Rio Grande watersheds by furnishing funds or services.

STATE

- Colorado State Engineer
- Wyoming State Engineer
- Utah State Engineer
- New Mexico State Engineer
- Montana State Engineer
- Nebraska State Engineer
- Colorado Experiment Station
- Colorado Extension Service
- Montana Experiment Station
- Utah Experiment Station

FEDERAL

- Department of Agriculture
  - Forest Service
  - Soil Conservation Service
- Department of Interior
  - Bureau of Reclamation
  - Geological Survey
  - National Park Service
- Department of Commerce
  - Weather Bureau
- War Department
  - Army Engineer Corps

PUBLIC UTILITIES

- Colorado Public Service Company
- Western Colorado Power Company
- Montana Power Company
- Public Service Company of New Mexico
- Denver and Rio Grande Western R. R. Company

MUNICIPALITIES

- City of Gunnison
- City of Denver
- City of Boulder

WATER USERS ORGANIZATIONS

- Poudre Valley Water Users' Association
- Arkansas Valley Ditch Association
- Colorado River Water Conservation District

IRRIGATION PROJECTS

- Farmers Reservoir and Irrigation Company
- San Luis Valley Irrigation District
- Santa Maria Reservoir Company
- Costilla Land Company
- Uncompahgre Valley Water Users' Association
- Wyoming Development Company
- Goshen Irrigation District
- Kendrick Project
- Pathfinder Irrigation District
- Salt River Valley Water Users' Association
- San Carlos Irrigation and Drainage District
- Twin Lakes Reservoir and Canal Company

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